

Name \_\_\_\_\_

## Chemical Substances Survey (Set C)

1. You meet someone who has never heard of caffeine. What would you say or do so that this person could recognize caffeine in the future?

2. Caffeine is present in many plant seedlings and acts as a pesticide to discourage insects from eating the unprotected plants. Is the caffeine found in seedlings the same as the caffeine found in energy drinks, such as Red Bull, or is the caffeine different? Please select your answer below.

\_\_\_\_\_ Same

\_\_\_\_\_ Different

Please explain your choice. How do you know that the caffeine is the same or different? What evidence do you have?

Is there any additional information you would like to know in order to determine if the caffeine is the same or different? If so, what information? How would this information help you make a decision?

Name \_\_\_\_\_

3. What could the object at the right be made out of? How would you know this?



[Iulia Bycheva] © 123RF.com

Is there other information you would like to know in order to determine what the object above is made of? If so, what information? How would this information help you determine what the object is made of?



[serezniy] © 123RF.com

4. Could the object at the left below be made of the same substance as the object in the picture you see above? Please select your response below.

Same substance

Different substance

Please explain your choice. How do you know that the substance is the same or different? What further information would you like to know, and how would this help you make a decision?